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HR 60173

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**TSCA Section 8(e) Document Processing Center**

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(Attn: Section 8(e) Coordinator)

Office of Pollution Prevention And Toxics

U.S. Environmental Protection Agency

1200 Pennsylvania Ave, NW

Washington, D.C. 20460

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2002 JUL -5 PM 2:28

Dear Sir or Madam:

In accordance with Section 8(e) of the Toxic Substance Control Act, we are submitting the following information.

1. Study report and summary for a daphnia acute fish toxicity test of Tinting Pigment Blue NB-5867 (liquid) indicating a 48-hour EC<sub>50</sub> of 0.00324 mg/L.
2. Study summary for the above report by our toxicologist.
3. The composition of Tinting Pigment Blue NB-5867 (liquid).

This formulation contains small quantities of one substance toxic to aquatic invertebrates, . The known toxicity of this component cannot account for the toxicity of this formulation at the dilution levels found to be toxic to daphnids.

This material is manufactured by C. Lever Company, Inc. in the United States.

*Describe what is being done to reduce human and environmental exposure.* Please see MSDS sheet attached. This product is used for the tinting of white paper at very low addition levels(oz. per ton). Most of the product is retained on the paper. Any material that ends up in the waste water will be treated at the Paper Mills waste water treatment facility. Also, additional research will be conducted to see if we can determine more reasons for the high mortality rate.

*This submission contains the following confidential business information:*  
The identity of the test material and raw materials are confidential because they fall under the category of Trade Secret Information.

*If composition is kept confidential:* The test material may be identified generically as N-{4-{bis{4-(diethylamino)phenyl}methylene} -2,5-cyclohexadien-1-ylidene}-N-ethyl-molybdatetungstatephosphate.

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2002 JUL 15 AM 9:10

**C. LEVER CO., INC.** MANUFACTURERS OF DYES AND COLORS

THE LEVER BLDG., 735 DUNKS FERRY RD., BENSLEM, PA. 19020 • (215) 639-6640 - 41

EMERGENCY DYE SERVICE NIGHTS AND WEEKENDS (215) 887-7410

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*The following information is claimed confidential:* Two componenets on the Composition page are to remain confidential. The \_\_\_\_\_ and the \_\_\_\_\_. The reason is that they have offered product advantages in the market place. The latter has been effective at controlling bacteria at very low dosage levels compared to other bacteriacides for this product.

*If the agency would like additional information please contact: Scott Lever @ 215-639-8640.*

Sincerely,

C. Lever Company, Inc.



Scott Lever

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## Toxicology Study Summary

10 June, 2002		to:
Study Material		Tinting Pigment Blue NB-5867 (liquid)
Report Number		Toxikon 02J0018 (dated 05/20/2002)
Study Type		Acute Toxicity to <i>Daphnia Magna</i>

**Procedure:** The test substance was diluted with test water (natural freshwater hardness of 88 mg/L) to the nominal concentrations shown below. These were established on the basis of a range-finding test at 0, 0.1, 1.0, 100 and 1000 mg/L in which five daphnids were exposed at each concentration for 48 hours and in which there was 100% mortality at all concentrations. IN the definitive test, twenty daphnids (*Daphnia magna*, two replicates of 10) were exposed to the test substance under static conditions for 48 hours. Daphnids were observed at 24 and 48 hours after initiation for signs of toxic effects and mortality.

### Results:

Nominal concentration (mg/l)	Cumulative Number Affected (of 20)		Other Adverse Effects
	24 hr	48 hr	
Control	0	0	None reported
0.0026	0	7	None reported
0.00653	0	20	None reported
0.0163	9	19	None reported
0.0408	17	20	None reported
0.102	17	19	1 lethargic

The laboratory did not report the presence or absence of undissolved test substance or suspended particles in any dilution. The 48-hour EC<sub>50</sub> was calculated using the Trimmed Spearman-Kärber Method to be 0.00324. A statistical program the laboratory utilizes calculated the NOEC to be 0.0026 mg/L.; however, the 35% mortality at this level is indicative of a lower NOEC.

**Conclusion:** Tinting Pigment Blue NB-5867 (liquid) was found to have an EC<sub>50</sub> (48 hr.) of **0.00324 mg/L** for *Daphnia magna* under these conditions. The NOEC was not definitively identified.



Elmer J. Rauckman, Ph.D., DABT  
Consulting Toxicologist

Composition of Tinting Pigment Blue NB-5867 (liquid)		
CASNO	Chemical Name	Percentage
1325-88-8	N-{4-{bis{4-(diethylamino)phenyl}methylene}-2,5-cyclohexadien-1-ylidene}-N-ethyl-molybdatetungstatephosphate	> 5
7732-18-5	Water	> 1
8061-51-6	Sodium Lignosulphonate	8 - 12